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PRIORITY INFO	CITE	6027	,			25X1
CORONA				02	DEC 1965	25X1
FOR SP-11/SP-10 ATTN:				DIST	RIBUTION	7 _25X1
1. FORWARDING VIA COURIER UMENTS:	ONE EACH OF T	HE FOLLOWING	DOC-	Cy No.	Office Fite OS ADMIN	Action
A. THE DETERMINATION OF	APPROXIMATE C	ELESTIAL ORI	ENTATION		SEC BR	
OF A STELLAR CAMERA FOR A VEHI					IPD PD	25X1
B. ATTITUDE ACCURACY REQ	UIREMENTS FOR	GROUND DIME	NSIONS A	13.5	PSD PSD-IC3	25X1
C. THE EFFECTS OF ERRORS	ON THE RAPID	READ OUT OF	ATTITUD	ES	PAG	
BY THE UTILIZATION OF STELLAR	PHOTOGRAPHY				DIAXX-4 SPAD	25X1
2. EXCERPTS FROM MEMORANDU	M SUBMITTED B	Y To	COLLECT	085	NSA-LO DIA-AP	25
AS FOLLOWS:				-		
A. THE ATTITUDE SENSOR S	HOULD BE CAPA	BLE OF PROVI	DING THE	-	Advance C Senitized	op <u>y</u>

PITCH, ROLL, AND YAW OF THE MAIN CAMERA SYSTEM TO ACCURACIES
BETTER THAN THREE MINUTES OF ARC. FURTHERMORE, THIS ATTITUDE

DATA SHOULD BE RECORDED IN A MANNER AND ON A MEDIUM THAT LENDS

ITSELF TO AUTOMATION, I.E., IMMEDIATE RECALL FOR REAL TIME PHOTOGRAMMETRIC SOLUTIONS. IT IS SUGGESTED THAT A BINARY DATA MATRIX,

OR A MAGNETIC TRACK ON THE FILM, OR A RECOVERABLE MAGNETIC TAPE

CORRELATED TO THE MAIN SYSTEM WOULD PERMIT THIS NECESSARY AUTOMATION.

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- B. THAT CAMERA SYSTEMS BE DESIGNED TO FUNCTION WITH PRE-CISION IN TERMS OF INTERNAL GEOMETRIC OPERATION. ONCE PRECISION IS CONSTRUCTED INTO A SPECIFIC SYSTEM, PROVISIONS SHOULD THEN BE MADE TO CALIBRATE THE CAMERA(S) TO DETERMINE THEIR ACCURACY SO THAT MEANINGFUL ERROR ANALYSIS CAN BE INCLUDED IN THE FINAL PHOTO-GRAMMETRIC REDUCTION.
- C. THAT THE TIME OF AN EVENT, I.E. EXPOSURE TIMES, CORREL-ATION TIMES, TIME HACKS, ETC., BE RECORDED IN A MANNER SIMILAR TO ATTITUDE DATA SO THAT THE REDUCTION OF THE GREENWICH CIVIL TIME OF THE EVENT CAN BE DETERMINED RAPIDLY (I.E. BY AUTOMATION).
- D. KNOWLEDGE OF ORBITAL PARAMETERS SHOULD BE REFINED BY EMPLOYING MORE ACCURATE TRACKING FACILITIES AND TECHNIQUES, AND BY INCLUDING THE USE OF RADAR OR LASAR ALTIMETERS THAT COULD BE OPERATED OVER NON-SENSITIVE AREAS.

TOPSECRET

-END OF MESSAGE-